



Certified Mail, Return Receipt Requested

January 30, 2017

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Attn: Title V Reports

Re: *Semiannual Monitoring Report for Facility No. A0733*

As required by Section I Part F of the subject Title V permit, the City of Sunnyvale Water Pollution Control Plant (Facility No. A0733) is submitting this Semiannual Monitoring Report for the period from July 1, 2016 through December 31, 2016. After reasonable inquiry, we conclude the following regarding this period of operation:

- There was one (1) exceedance of the oil and filter change and hose inspection 1,440 hour limit for RICE on S-18;
- There were no excess emissions;
- All reports were submitted on time;
- All CEM QA procedures, methodologies, and maintenance were performed as required.

The monitoring required by this permit and the monitoring results are summarized below:

PGF Heat Input Limits Monitoring [Condition 10844 (2)]:

S-14 and S-15 gas throughput for each fuel type is monitored continuously at five second intervals on a daily basis, well in compliance with the required 15-minute interval. Monthly samples are collected from each fuel stream and analyzed for the high-heat value, which is used with the gas throughput to calculate the daily and consecutive 12-month total heat inputs to each engine. All calculated values were in compliance with the permitted limits of 200 MMBTU daily and 72,000 MMBTU rolling annual total over the entire reporting period.

PGF Annual Source Test [Condition 10844 (4, 6)]:

The Annual Source Test for S-14 and S-15 was conducted on January 20, 2016. Analytical results were submitted to BAAQMD on March 4, 2016. All results were in compliance with the emission limits and regulations specified in the permit.

**ADDRESS ALL MAIL TO: P.O. BOX 3707 SUNNYVALE, CALIFORNIA 94088-3707
TDD (408) 730-7501**

PGF Quarterly Emissions Monitoring [9-8-503, 9-8-302.1, 9-8-302.3]:

Third and Fourth quarter emissions monitoring events for S-14 and S-15 were conducted on July 26 and November 15. All results were in compliance with the applicable emissions limits of 70 ppm NOx and 2,000 ppm CO.

Sulfur Compounds Monitoring [Condition 19978 (2)]:

Total reduced sulfur compounds in the digester gas used to operate S-16, S-17, and S-18 are monitored quarterly. The results provided following table demonstrate compliance with the 1,550 ppmvd limit:

Total Reduced Sulfur Compounds – Draeger Tube Test results				
Sources: S-16, 17 & 18	Date of Test	Requirement	Result ppmv (dry)	Compliant (Y/N)
Third Quarter Sampling:				
Digester Gas	7/6/2016	19978 (2)	760	Y
Fourth Quarter Sampling:				
Digester Gas	10/5/2016	19978 (2)	680	Y

Landfill Gas Component System Leak Testing [8-34-301.2]:

Third and Fourth Quarter monitoring events were conducted on August 27 and November 15, 2016, to identify any presence of organic compound concentrations above the permit limit of 1,000 ppmv, measured as methane, associated with the landfill gas system components on the facility.

During the third quarter monitoring event, component/leak emissions testing of the LFG conveyance piping was performed and detected methane gas concentration up to 3,500 ppmv within the pipe catch area due to a small hole that had formed in the pipe. The hole was repaired by City personnel, and retesting was performed that same day, indicating that methane concentrations had returned to below compliance limits. No other compliance issues were detected during this reporting period.

RICE Oil Change Frequency [Table 2d.13 of NESHAP 63.6603(a)]:

During the reporting period, there was a single exceedance at S-18 of the oil and filter change and hose inspection 1,440 hour limit established in Subparts a and c of Table 2d.13 of NESHAP 63.6603(a) for all applicable RICE engines at the facility. On January 3, 2017 while completing this semiannual monitoring report, it was discovered that on August 22, 2016, maintenance staff performed an oil change, cleaned the oil filters, and inspected the hoses on Influent Pump Engine #3 (S-18) at 1,591 operating hours, which exceeds the maximum allowed. All other compliance criteria were met for this applicable requirement within the current reporting period.

Pursuant to the requirements, a report was submitted to BAAQMD on January 13, 2017, that served as both the 10-day and 30-day deviation report. The report provided greater detail into the nature of the excursion as well as preventative steps that were taken.

Landfill Gas Emission Control System [8-34-113.2]:

During the reporting period, the LFG emission control system was in compliance with the shutdown time limitation of ≤ 240 hours/year.

Emergency Blackstart Generator Reliability-Related Activities [Condition 19929 (3)]:

During the reporting period, reliability-related activities performed on the emergency blackstart generator (S-19) were in compliance with the limitation of ≤ 100 hours/year.

I am the responsible person for the City of Sunnyvale Water Pollution Control Plant, and I certify that this report is true, accurate, and complete.

Please contact Melody Tovar at (408) 730-7740 if you have any questions or comments on this report.

Sincerely,



John Stufflebean
Director, Environmental Services Department

cc: Alfonso Borja Jr., BAAQMD – email

TITLE V
SEMI-ANNUAL MONITORING FORM

DATE SUBMITTED: 2/1/2017

SITE NAME: City of Sunnyvale Water Pollution Control

SITE NUMBER: A0733

ADDRESS: 1444 Borregas Ave., Sunnyvale, CA 94089

I have received the semi-annual monitoring report for the following periods:

DATE: From: July 1, 2016 – December 31, 2016

Comments: 10-Day and 30-Day Deviation Report
Submitted C Dev. #4763 for S-18, influent pump)
for failing to meet oil change frequency, as
required in Table 2d.13 of DESHAP 63.6603(a)
NTC # A45028 issued.

BERNARD C. SALALILA

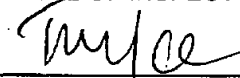
3/2/17



NAME OF INSPECTOR

DATE

SIGNATURE



3/13/17

SUPERVISOR'S INITIALS

DATE